

**CLAIMS**

What is claimed is:

1. A compound of formula (I),
- 5  $(R^2R^3)-A^7-A^8-A^9-A^{10}-A^{11}-A^{12}-A^{13}-A^{14}-A^{15}-A^{16}-A^{17}-A^{18}-A^{19}-A^{20}-A^{21}-A^{22}-A^{23}-A^{24}-A^{25}-A^{26}-A^{27}-$   
 $A^{28}-A^{29}-A^{30}-A^{31}-A^{32}-A^{33}-A^{34}-A^{35}-A^{36}-A^{37}-A^{38}-A^{39}-R^1,$
- (I)
- wherein
- $A^7$  is L-His, Ura, Paa, Pta, Amp, Tma-His, des-amino-His, or deleted;
- 10  $A^8$  is Ala, D-Ala, Aib, Acc, N-Me-Ala, N-Me-D-Ala or N-Me-Gly;
- $A^9$  is Glu, N-Me-Glu, N-Me-Asp or Asp;
- $A^{10}$  is Gly, Acc,  $\beta$ -Ala or Aib;
- $A^{11}$  is Thr or Ser;
- $A^{12}$  is Phe, Acc, Aic, Aib, 3-Pal, 4-Pal,  $\beta$ -Nal, Cha, Trp or  $X^1$ -Phe;
- 15  $A^{13}$  is Thr or Ser;
- $A^{14}$  is Ser or Aib;
- $A^{15}$  is Asp or Glu;
- $A^{16}$  is Val, Acc, Aib, Leu, Ile, Tle, Nle, Abu, Ala or Cha;
- $A^{17}$  is Ser or Thr;
- 20  $A^{18}$  is Ser or Thr;
- $A^{19}$  is Tyr, Cha, Phe, 3-Pal, 4-Pal, Acc,  $\beta$ -Nal or  $X^1$ -Phe;
- $A^{20}$  is Leu, Acc, Aib, Nle, Ile, Cha, Tle, Val, Phe or  $X^1$ -Phe;
- $A^{21}$  is Glu or Asp;
- $A^{22}$  is Gly, Acc,  $\beta$ -Ala, Glu or Aib;
- 25  $A^{23}$  is Gln, Asp, Asn or Glu;
- $A^{24}$  is Ala, Aib, Val, Abu, Tle or Acc;
- $A^{25}$  is Ala, Aib, Val, Abu, Tle, Acc, Lys, Arg, hArg, Orn,  $HN-CH((CH_2)_n-N(R^{10}R^{11}))-C(O)$  or  $HN-CH((CH_2)_6-X^3)-C(O)$ ;
- $A^{26}$  is Lys, Arg, hArg, Orn,  $HN-CH((CH_2)_n-N(R^{10}R^{11}))-C(O)$  or  $HN-CH((CH_2)_6-X^3)-$
- 30  $C(O)$ ;
- $A^{27}$  is Glu Asp, Leu, Aib or Lys;
- $A^{28}$  is Phe, Pal,  $\beta$ -Nal,  $X^1$ -Phe, Aic, Acc, Aib, Cha or Trp;
- $A^{29}$  is Ile, Acc, Aib, Leu, Nle, Cha, Tle, Val, Abu, Ala or Phe;
- $A^{30}$  is Ala, Aib or Acc;

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A<sup>31</sup> is Trp,  $\beta$ -Nal, 3-Pal, 4-Pal, Phe, Acc, Aib or Cha;

A<sup>32</sup> is Leu, Acc, Aib, Nle, Ile, Cha, Tle, Phe, X<sup>1</sup>-Phe or Ala;

A<sup>33</sup> is Val, Acc, Aib, Leu, Ile, Tle, Nle, Cha, Ala, Phe, Abu, Lys or X<sup>1</sup>-Phe;

A<sup>34</sup> is Lys, Arg, hArg, Orn, HN-CH((CH<sub>2</sub>)<sub>n</sub>-N(R<sup>10</sup>R<sup>11</sup>))-C(O) or HN-CH((CH<sub>2</sub>)<sub>e</sub>-X<sup>3</sup>)-C(O);

A<sup>35</sup> is Gly,  $\beta$ -Ala, D-Ala, Gaba, Ava, HN-(CH<sub>2</sub>)<sub>m</sub>-C(O), Aib, Acc or a D-amino acid;

A<sup>36</sup> is L- or D-Arg, D- or L-Lys, D- or L-hArg, D- or L-Orn, HN-CH((CH<sub>2</sub>)<sub>n</sub>-N(R<sup>10</sup>R<sup>11</sup>))-C(O), HN-CH((CH<sub>2</sub>)<sub>e</sub>-X<sup>3</sup>)-C(O) or deleted;

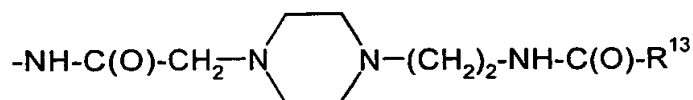
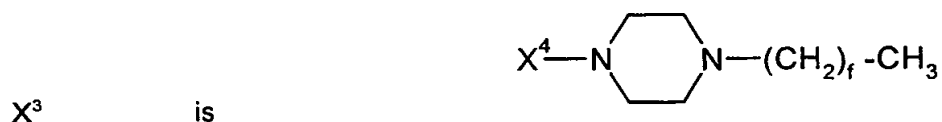
A<sup>37</sup> is Gly,  $\beta$ -Ala, Gaba, Ava, Aib, Acc, Ado, Arg, Asp, Aun, Aec, HN-(CH<sub>2</sub>)<sub>m</sub>-C(O), HN-CH((CH<sub>2</sub>)<sub>n</sub>-N(R<sup>10</sup>R<sup>11</sup>))-C(O), a D-amino acid, or deleted;

A<sup>38</sup> is D- or L-Lys, D- or L-Arg, D- or L-hArg, D- or L-Orn, HN-CH((CH<sub>2</sub>)<sub>n</sub>-N(R<sup>10</sup>R<sup>11</sup>))-C(O), HN-CH((CH<sub>2</sub>)<sub>e</sub>-X<sup>3</sup>)-C(O) Ava, Ado, Aec or deleted;

A<sup>39</sup> is D- or L-Lys, D- or L-Arg, HN-CH((CH<sub>2</sub>)<sub>n</sub>-N(R<sup>10</sup>R<sup>11</sup>))-C(O), Ava, Ado, or Aec;

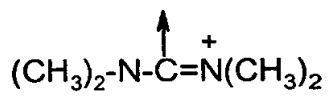
X<sup>1</sup> for each occurrence is independently selected from the group consisting of (C<sub>1</sub>-C<sub>6</sub>)alkyl, OH and halo;

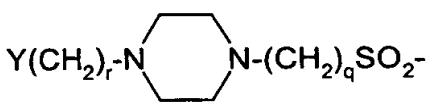
R<sup>1</sup> is OH, NH<sub>2</sub>, (C<sub>1</sub>-C<sub>30</sub>)alkoxy, or NH-X<sup>2</sup>-CH<sub>2</sub>-Z<sup>0</sup>, wherein X<sup>2</sup> is a (C<sub>1</sub>-C<sub>12</sub>)hydrocarbon moiety, and Z<sup>0</sup> is H, OH, CO<sub>2</sub>H or CONH<sub>2</sub>;

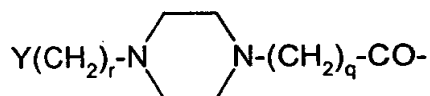


or -C(O)-NHR<sup>12</sup>, wherein X<sup>4</sup> is, independently for each occurrence, -C(O)-, -NH-C(O)- or -CH<sub>2</sub>-, and wherein f is, independently for each occurrence, an integer from 1 to 29 inclusive;

each of R<sup>2</sup> and R<sup>3</sup> is independently selected from the group consisting of H, (C<sub>1</sub>-C<sub>30</sub>)alkyl, (C<sub>2</sub>-C<sub>30</sub>)alkenyl, phenyl(C<sub>1</sub>-C<sub>30</sub>)alkyl, naphthyl(C<sub>1</sub>-C<sub>30</sub>)alkyl, hydroxy(C<sub>1</sub>-C<sub>30</sub>)alkyl, hydroxy(C<sub>2</sub>-C<sub>30</sub>)alkenyl, hydroxyphenyl(C<sub>1</sub>-C<sub>30</sub>)alkyl, and

hydroxynaphthyl(C<sub>1</sub>-C<sub>30</sub>)alkyl; or one of R<sup>2</sup> and R<sup>3</sup> is , (C<sub>1</sub>-

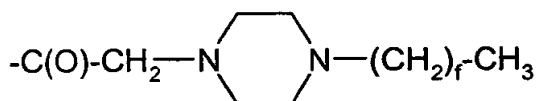
C<sub>30</sub>)acyl, (C<sub>1</sub>-C<sub>30</sub>)alkylsulfonyl, C(O)X<sup>5</sup>, , or



; wherein Y is H, OH or NH<sub>2</sub>; r is 0 to 4; q is 0 to 4;

and X<sup>5</sup> is (C<sub>1</sub>-C<sub>30</sub>)alkyl, (C<sub>2</sub>-C<sub>30</sub>)alkenyl, phenyl(C<sub>1</sub>-C<sub>30</sub>)alkyl, naphthyl(C<sub>1</sub>-C<sub>30</sub>)alkyl, hydroxy(C<sub>1</sub>-C<sub>30</sub>)alkyl, hydroxy(C<sub>2</sub>-C<sub>30</sub>)alkenyl, hydroxyphenyl(C<sub>1</sub>-C<sub>30</sub>)alkyl or hydroxynaphthyl(C<sub>1</sub>-C<sub>30</sub>)alkyl;

- 5 e is, independently for each occurrence, an integer from 1 to 4 inclusive;  
 m is, independently for each occurrence, an integer from 5 to 24 inclusive;  
 n is, independently for each occurrence, an integer from 1 to 5, inclusive;  
 each of R<sup>10</sup> and R<sup>11</sup> is, independently for each occurrence, H, (C<sub>1</sub>-C<sub>30</sub>)alkyl, (C<sub>1</sub>-C<sub>30</sub>)acyl, (C<sub>1</sub>-C<sub>30</sub>)alkylsulfonyl, -C((NH)(NH<sub>2</sub>)) or



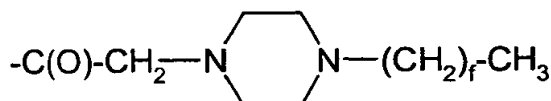
- 10 ; and

R<sup>12</sup> and R<sup>13</sup> each is, independently for each occurrence, (C<sub>1</sub>-C<sub>30</sub>)alkyl;

provided that:

when A<sup>7</sup> is Ura, Paa or Pta, then R<sup>2</sup> and R<sup>3</sup> are deleted;

when R<sup>10</sup> is (C<sub>1</sub>-C<sub>30</sub>)acyl, (C<sub>1</sub>-C<sub>30</sub>)alkylsulfonyl, -C((NH)(NH<sub>2</sub>)) or

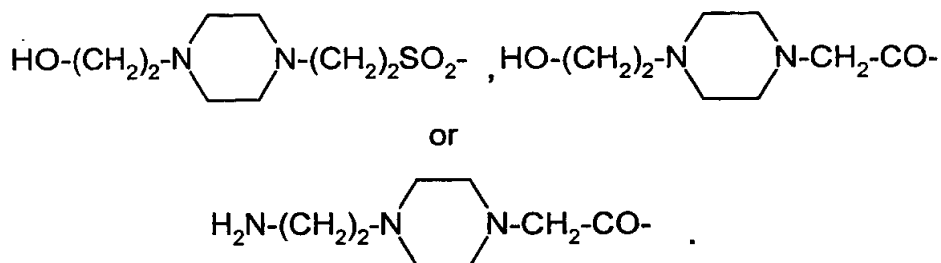


- 15 , then R<sup>11</sup> is H or (C<sub>1</sub>-C<sub>30</sub>)alkyl;

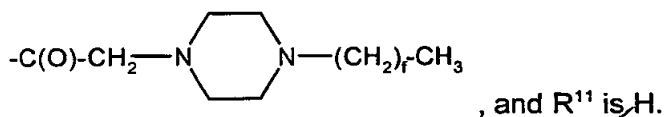
- (i) at least one amino acid of a compound of formula (I) is not the same as the native sequence of hGLP-1(7-36, -37 or -38)NH<sub>2</sub> or hGLP-1(7-36, -37 or -38)OH;  
 (ii) a compound of formula (I) is not an analogue of hGLP-1(7-36, -37 or -38)NH<sub>2</sub> or hGLP-1(7-36, -37 or -38)OH wherein a single position has been substituted by Ala;  
 20 (iii) a compound of formula (I) is not (Arg<sup>26,34</sup>, Lys<sup>38</sup>)hGLP-1(7-38)-E, (Lys<sup>26</sup>(N<sub>ε</sub>-alkanoyl))hGLP-1(7-36, -37 or -38)-E, (Lys<sup>34</sup>(N<sub>ε</sub>-alkanoyl))hGLP-1(7-36, -37 or -38)-E, (Lys<sup>26,34</sup>-bis(N<sub>ε</sub>-alkanoyl))hGLP-1(7-36, -37 or -38)-E, (Arg<sup>26</sup>, Lys<sup>34</sup>(N<sub>ε</sub>-alkanoyl))hGLP-1(8-36, -37 or -38)-E, (Arg<sup>26,34</sup>, Lys<sup>36</sup>(N<sub>ε</sub>-alkanoyl))hGLP-1(7-36, -37 or -38)-E or (Arg<sup>26,34</sup>, Lys<sup>38</sup>(N<sub>ε</sub>-alkanoyl))hGLP-1(7-38)-E, wherein E is -OH or -NH<sub>2</sub>;  
 25 (iv) a compound of formula (I) is not Z<sup>1</sup>-hGLP-1(7-36, -37 or -38)-OH, Z<sup>1</sup>-hGLP-1(7-36, -37 or -38)-NH<sub>2</sub>, wherein Z<sup>1</sup> is selected from the group consisting of:  
 (e) (Arg<sup>25</sup>), (Arg<sup>34</sup>), (Arg<sup>26,34</sup>), (Lys<sup>36</sup>), (Arg<sup>26</sup>, Lys<sup>36</sup>), (Arg<sup>34</sup>, Lys<sup>36</sup>), (D-Lys<sup>36</sup>), (Arg<sup>35</sup>), (D-Arg<sup>36</sup>), (Arg<sup>26,34</sup>, Lys<sup>36</sup>) or (Arg<sup>26,36</sup>, Lys<sup>34</sup>);

- (f) (Asp<sup>21</sup>);
- (g) at least one of (Aib<sup>8</sup>), (D-Ala<sup>8</sup>) and (Asp<sup>9</sup>); and
- (h) (Tyr<sup>7</sup>), (N-acyl-His<sup>7</sup>), (N-alkyl-His<sup>7</sup>), (N-acyl-D-His<sup>7</sup>) or (N-alkyl-D-His<sup>7</sup>);
- (v) a compound of formula (I) is not a combination of any two of the substitutions listed in groups (a) to (d); and
- (vi) a compound of formula (I) is not (N-Me-Ala<sup>8</sup>)hGLP-1(8-36 or -37), (Glu<sup>15</sup>)hGLP-1(7-36 or -37), (Asp<sup>21</sup>)hGLP-1(7-36 or -37) or (Phe<sup>31</sup>)hGLP-1(7-36 or -37) or a pharmaceutically acceptable salt thereof.
2. A compound according to claim 1, wherein A<sup>11</sup> is Thr; A<sup>13</sup> is Thr; A<sup>15</sup> is Asp; A<sup>17</sup> is Ser; A<sup>18</sup> is Ser; A<sup>21</sup> is Glu; A<sup>23</sup> is Gln or Glu; A<sup>27</sup> is Glu; and A<sup>31</sup> is Trp; or a pharmaceutically acceptable salt thereof.
3. A compound according to claim 2, wherein A<sup>9</sup> is Glu, N-Me-Glu or N-Me-Asp; A<sup>12</sup> is Phe, Acc or Aib; A<sup>16</sup> is Val, Acc or Aib; A<sup>19</sup> is Tyr; A<sup>20</sup> is Leu, Acc or Cha; A<sup>24</sup> is Ala, Aib or Acc; A<sup>25</sup> is Ala, Aib, Acc, Lys, Arg, hArg, Orn, HN-CH((CH<sub>2</sub>)<sub>n</sub>-N(R<sup>10</sup>R<sup>11</sup>))-C(O) or HN-CH((CH<sub>2</sub>)<sub>e</sub>-X<sup>3</sup>)-C(O); A<sup>28</sup> is Phe; A<sup>29</sup> is Ile or Acc; A<sup>30</sup> is Ala or Aib; A<sup>32</sup> is Leu, Acc or Cha; and A<sup>33</sup> is Val or Acc; or a pharmaceutically acceptable salt thereof.
4. A compound according to claim 3, wherein A<sup>8</sup> is Ala, D-Ala, Aib, A6c, A5c, N-Me-Ala, N-Me-D-Ala or N-Me-Gly; A<sup>10</sup> is Gly; A<sup>12</sup> is Phe, A6c or A5c; A<sup>16</sup> is Val, A6c or A5c; A<sup>20</sup> is Leu, A6c, A5c or Cha; A<sup>22</sup> is Gly, β-Ala or Aib; A<sup>24</sup> is Ala or Aib; A<sup>29</sup> is Ile, A6c or A5c; A<sup>32</sup> is Leu, A6c, A5c or Cha; A<sup>33</sup> is Val, A6c or A5c; A<sup>35</sup> is Aib, β-Ala, Ado, A6c, A5c or Gly; and A<sup>37</sup> is Gly, Aib, β-Ala, Ado, D-Ala or deleted; or a pharmaceutically acceptable salt thereof.
5. A compound according to claim 4 or a pharmaceutically acceptable salt thereof, wherein X<sup>4</sup> for each occurrence is -C(O)-; e for each occurrence is independently 1 or 2; and R<sup>1</sup> is OH or NH<sub>2</sub>.
6. A compound according to claim 5 or a pharmaceutically acceptable salt thereof, wherein R<sup>2</sup> is H and R<sup>3</sup> is (C<sub>1</sub>-C<sub>30</sub>)alkyl, (C<sub>2</sub>-C<sub>30</sub>)alkenyl, (C<sub>1</sub>-C<sub>30</sub>)acyl, (C<sub>1</sub>-C<sub>30</sub>)alkylsulfonyl,

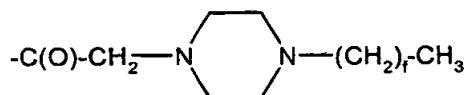
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7. A compound according to claim 5 or a pharmaceutically acceptable salt thereof, wherein R<sup>10</sup> is (C<sub>1</sub>-C<sub>30</sub>)acyl, (C<sub>1</sub>-C<sub>30</sub>)alkylsulfonyl or



5 8. A compound according to claim 7 or a pharmaceutically acceptable salt thereof, wherein R<sup>10</sup> is (C<sub>4</sub>-C<sub>20</sub>)acyl, (C<sub>4</sub>-C<sub>20</sub>)alkylsulfonyl or



9. A compound according to claim 1 wherein said compound is

(Aib<sup>8,35</sup>)hGLP-1(7-36)NH<sub>2</sub>,

10 ((N<sub>α</sub>-HEPES-His)<sup>7</sup>, Aib<sup>8,35</sup>)hGLP-1(7-36)NH<sub>2</sub>,

((N<sub>α</sub>-HEPA-His)<sup>7</sup>, Aib<sup>8,35</sup>)hGLP-1(7-36)NH<sub>2</sub>,

(Aib<sup>8</sup>, β-Ala<sup>35</sup>)hGLP-1(7-36)NH<sub>2</sub>,

(Aib<sup>8,35</sup>, Arg<sup>26,34</sup>, Lys<sup>36</sup>(N<sub>ε</sub>-tetradecanoyl))hGLP-1(7-36)NH<sub>2</sub>,

(Aib<sup>8,35</sup>, Arg<sup>26</sup>, Lys<sup>34</sup>(N<sub>ε</sub>-tetradecanoyl))hGLP-1(7-36)NH<sub>2</sub>,

15 (Aib<sup>8,35,37</sup>, Arg<sup>26,34</sup>, Lys<sup>38</sup>(N<sub>ε</sub>-tetradecanoyl))hGLP-1(7-38)NH<sub>2</sub>,

(Aib<sup>8,35</sup>, Arg<sup>26,34</sup>, Lys<sup>36</sup>(N<sub>ε</sub>-decanoyl))hGLP-1(7-36)NH<sub>2</sub>,

(Aib<sup>8,35</sup>, Arg<sup>26,34</sup>, Lys<sup>36</sup>(N<sub>ε</sub>-dodecanesulfonyl))hGLP-1(7-36)NH<sub>2</sub>,

(Aib<sup>8,35</sup>, Arg<sup>26,34</sup>, Lys<sup>36</sup>(N<sub>ε</sub>-(2-(4-tetradecyl-1-piperazine)-acetyl)))hGLP-1(7-36)NH<sub>2</sub>,

(Aib<sup>8,35</sup>, Arg<sup>26,34</sup>, Asp<sup>36</sup>(1-(4-tetradecyl-piperazine)))hGLP-1(7-36)NH<sub>2</sub>,

20 (Aib<sup>8,35</sup>, Arg<sup>26,34</sup>, Asp<sup>36</sup>(1-tetradecylamino))hGLP-1(7-36)NH<sub>2</sub>,

(Aib<sup>8,35</sup>, Arg<sup>26,34</sup>, Lys<sup>36</sup>(N<sub>ε</sub>-tetradecanoyl), β-Ala<sup>37</sup>)hGLP-1(7-37)-OH or

(Aib<sup>8,35</sup>, Arg<sup>26,34</sup>, Lys<sup>36</sup>(N<sub>ε</sub>-tetradecanoyl))hGLP-1(7-36)-OH, or a pharmaceutically acceptable salt thereof.

10. A compound according to claim 9 wherein said compound is

25 (Aib<sup>8,35</sup>)hGLP-1(7-36)NH<sub>2</sub>,

(Aib<sup>8</sup>,  $\beta$ -Ala<sup>35</sup>)hGLP-1(7-36)NH<sub>2</sub>,

(Aib<sup>8,35</sup>, Arg<sup>26</sup>, Lys<sup>34</sup>(N<sub>ε</sub>-tetradecanoyl))hGLP-1(7-36)NH<sub>2</sub>,

(Aib<sup>8,35,37</sup>, Arg<sup>26,34</sup>, Lys<sup>38</sup>(N<sub>ε</sub>-tetradecanoyl))hGLP-1(7-38)NH<sub>2</sub>,

(Aib<sup>8,35</sup>, Arg<sup>26,34</sup>, Lys<sup>36</sup>(N<sub>ε</sub>-decanoyl))hGLP-1(7-36)NH<sub>2</sub>, or

- 5 (Aib<sup>8,35</sup>, Arg<sup>26,34</sup>, Lys<sup>36</sup>(N<sub>ε</sub>-tetradecanoyl),  $\beta$ -Ala<sup>37</sup>)hGLP-1(7-37)-OH, or a pharmaceutically acceptable salt thereof.

11. A pharmaceutical composition comprising an effective amount of a compound according to claim 1 or a pharmaceutically acceptable salt thereof and a pharmaceutically acceptable carrier or diluent.

- 10 12. A method of eliciting an agonist effect from a GLP-1 receptor in a subject in need thereof which comprises administering to said subject an effective amount of a compound according to claim 1 or a pharmaceutically acceptable salt thereof.

13. A method of treating a disease selected from the group consisting of  
15 Type I diabetes, Type II diabetes, obesity, glucagonomas, secretory disorders of the airway, metabolic disorder, arthritis, osteoporosis, central nervous system disease, restenosis and neurodegenerative disease, in a subject in need thereof which comprises administering to said subject an effective amount of a compound according to claim 1 or a pharmaceutically acceptable salt thereof.

- 20 14. A method according to claim 13 wherein said disease is Type I diabetes or Type II diabetes.

15. A compound according to claim 1 wherein said compound is

(Aib<sup>35</sup>)hGLP-1(7-36)NH<sub>2</sub>;

( $\beta$ -Ala<sup>35</sup>)hGLP-1(7-36)NH<sub>2</sub>;

- 25 ((N<sup>α</sup>-Me-His)<sup>7</sup>, Aib<sup>8,35</sup>)hGLP-1(7-36)NH<sub>2</sub>;

((N<sup>α</sup>-Me-His)<sup>7</sup>, Aib<sup>8</sup>,  $\beta$ -Ala<sup>35</sup>)hGLP-1(7-36)NH<sub>2</sub>;

((N<sup>α</sup>-Me-His)<sup>7</sup>, Aib<sup>8,35</sup>, Arg<sup>26,34</sup>)hGLP-1(7-36)NH<sub>2</sub>;

((N<sup>α</sup>-Me-His)<sup>7</sup>, Aib<sup>8</sup>, Arg<sup>26,34</sup>,  $\beta$ -Ala<sup>35</sup>)hGLP-1(7-36)NH<sub>2</sub>;

(Aib<sup>8</sup>, A6c<sup>35</sup>)hGLP-1(7-36)NH<sub>2</sub>;

- 30 (Aib<sup>8</sup>, A5c<sup>35</sup>)hGLP-1(7-36)NH<sub>2</sub>;

(Aib<sup>8</sup>, D-Ala<sup>35</sup>)hGLP-1(7-36)NH<sub>2</sub>;

(Aib<sup>8,35</sup>, A6c<sup>32</sup>)hGLP-1(7-36)NH<sub>2</sub>;

(Aib<sup>8,35</sup>, A5c<sup>32</sup>)hGLP-1(7-36)NH<sub>2</sub>;

(Aib<sup>8,35</sup>, Glu<sup>23</sup>)hGLP-1(7-36)NH<sub>2</sub>;

- (Aib<sup>8,24,35</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,30,35</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,25,35</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, A6c<sup>16,20</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 5 (Aib<sup>8,35</sup>, A6c<sup>16,29,32</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, A6c<sup>20,32</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, A6c<sup>20</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Lys<sup>25</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,24,35</sup>, A6c<sup>20</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 10 (Aib<sup>8,35</sup>, A6c<sup>29,32</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,24,35</sup>, A6c<sup>29,32</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, A6c<sup>12</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Cha<sup>20</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, A6c<sup>33</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 15 (Aib<sup>8,35</sup>, A6c<sup>20,32</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8</sup>, A6c<sup>16,20</sup>, β-Ala<sup>35</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, β-Ala<sup>22</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,22,35</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Glu<sup>23</sup>, A6c<sup>32</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 20 (Aib<sup>8,24,35</sup>, Glu<sup>23</sup>, A6c<sup>32</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,24,25,35</sup>, Glu<sup>23</sup>, A6c<sup>32</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,24,25,35</sup>, A6c<sup>16,20,32</sup>, Glu<sup>23</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8</sup>, A6c<sup>32</sup>, β-Ala<sup>35</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8</sup>, A5c<sup>32</sup>, β-Ala<sup>35</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 25 (Aib<sup>8</sup>, Glu<sup>23</sup>, β-Ala<sup>35</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,24</sup>, β-Ala<sup>35</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,30</sup>, β-Ala<sup>35</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,25</sup>, β-Ala<sup>35</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8</sup>, A6c<sup>16,20</sup>, β-Ala<sup>35</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 30 (Aib<sup>8</sup>, A6c<sup>16,29,32</sup>, β-Ala<sup>35</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8</sup>, A6c<sup>20,32</sup>, β-Ala<sup>35</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8</sup>, A6c<sup>20</sup>, β-Ala<sup>35</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8</sup>, Lys<sup>25</sup>, β-Ala<sup>35</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,24</sup>, A6c<sup>20</sup>, β-Ala<sup>35</sup>)hGLP-1(7-36)NH<sub>2</sub>;

- (Aib<sup>8</sup>, A6c<sup>29,32</sup>,  $\beta$ -Ala<sup>35</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,24</sup>, A6c<sup>29,32</sup>,  $\beta$ -Ala<sup>35</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8</sup>, A6c<sup>12</sup>,  $\beta$ -Ala<sup>35</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8</sup>, Cha<sup>20</sup>,  $\beta$ -Ala<sup>35</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 5 (Aib<sup>8</sup>, A6c<sup>33</sup>,  $\beta$ -Ala<sup>35</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8</sup>, A6c<sup>20,32</sup>,  $\beta$ -Ala<sup>35</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8</sup>,  $\beta$ -Ala<sup>22,35</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,22</sup>,  $\beta$ -Ala<sup>35</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8</sup>, Glu<sup>23</sup>, A6c<sup>32</sup>,  $\beta$ -Ala<sup>35</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 10 (Aib<sup>8,24</sup>, Glu<sup>23</sup>, A6c<sup>32</sup>,  $\beta$ -Ala<sup>35</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,24</sup>, Glu<sup>23</sup>, A6c<sup>32</sup>, Lys<sup>34</sup>(N<sup>ε</sup>-octanoyl),  $\beta$ -Ala<sup>35</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,24,25</sup>, Glu<sup>23</sup>, A6c<sup>32</sup>,  $\beta$ -Ala<sup>35</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,24,25</sup>, A6c<sup>16,20,32</sup>, Glu<sup>23</sup>,  $\beta$ -Ala<sup>35</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, D-Arg<sup>36</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 15 (Aib<sup>8,35</sup>, D-Lys<sup>36</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8</sup>,  $\beta$ -Ala<sup>35</sup>, D-Arg<sup>36</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8</sup>,  $\beta$ -Ala<sup>35</sup>, D-Lys<sup>36</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Arg<sup>26,34</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8</sup>, Arg<sup>26,34</sup>,  $\beta$ -Ala<sup>35</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 20 (Aib<sup>8,35</sup>, Arg<sup>25,26,34</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8</sup>, Arg<sup>25,26,34</sup>,  $\beta$ -Ala<sup>35</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8</sup>, Arg<sup>26,34</sup>,  $\beta$ -Ala<sup>35</sup>, Lys<sup>36</sup>(N<sup>ε</sup>-tetradecanoyl))hGLP-1(7-36)OH;  
 (Aib<sup>8,35</sup>, Arg<sup>26,34</sup>, Lys<sup>36</sup>(N<sup>ε</sup>-tetradecanoyl))hGLP-1(7-37)OH;  
 (Aib<sup>8,35,37</sup>, Arg<sup>26,34</sup>, Lys<sup>36</sup>(N<sup>ε</sup>-tetradecanoyl))hGLP-1(7-37)OH;  
 25 (Aib<sup>8,35</sup>, Arg<sup>26,34</sup>, Lys<sup>36</sup>(N<sup>ε</sup>-tetradecanoyl), D-Ala<sup>37</sup>)hGLP-1(7-37)OH;  
 (Aib<sup>8,35,37</sup>, Arg<sup>26,34</sup>, Lys<sup>38</sup>(N<sup>ε</sup>-tetradecanoyl))hGLP-1(7-38)OH;  
 (Aib<sup>8,35</sup>, Arg<sup>26,34</sup>,  $\beta$ -Ala<sup>37</sup>, Lys<sup>38</sup>(N<sup>ε</sup>-tetradecanoyl))hGLP-1(7-38)OH;  
 (Aib<sup>8,35</sup>, Arg<sup>26,34</sup>, Lys<sup>38</sup>(N<sup>ε</sup>-tetradecanoyl))hGLP-1(7-38)OH;  
 (Aib<sup>8</sup>, Arg<sup>26,34</sup>, Lys<sup>36</sup>(N<sup>ε</sup>-tetradecanoyl),  $\beta$ -Ala<sup>37</sup>)hGLP-1(7-37)OH;  
 30 (Aib<sup>8,37</sup>, Arg<sup>26,34</sup>, Lys<sup>36</sup>(N<sup>ε</sup>-tetradecanoyl))hGLP-1(7-37)OH;  
 (Aib<sup>8,35</sup>, Arg<sup>26,34</sup>, Ado<sup>37</sup>)hGLP-1(7-37)OH;  
 (Aib<sup>8,35</sup>, Arg<sup>26,34</sup>, Ado<sup>37</sup>)hGLP-1(7-37)NH<sub>2</sub>;  
 (Aib<sup>8</sup>, Arg<sup>26,34</sup>, Lys<sup>36</sup>(N<sup>ε</sup>-tetradecanoyl), D-Ala<sup>37</sup>)hGLP-1(7-37)OH;



- (Aib<sup>8,37</sup>, Arg<sup>26,34</sup>, Lys<sup>38</sup>(N<sup>ε</sup>-tetradecanoyl))hGLP-1(7-38)OH;  
 (Aib<sup>8</sup>, Arg<sup>26,34</sup>, β-Ala<sup>37</sup>, Lys<sup>38</sup>(N<sup>ε</sup>-tetradecanoyl))hGLP-1(7-38)OH;  
 (Aib<sup>8,35</sup>, Lys<sup>26</sup>(N<sup>ε</sup>-octanoyl))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Lys<sup>26</sup>(N<sup>ε</sup>-tetradecanoyl))hGLP-1(7-36)NH<sub>2</sub>;  
 5 (Aib<sup>8,35</sup>, Lys<sup>26</sup>(N<sup>ε</sup>-hexadecanoyl))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8</sup>, Lys<sup>26</sup>(N<sup>ε</sup>-octanoyl), β-Ala<sup>35</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8</sup>, Lys<sup>26</sup>(N<sup>ε</sup>-tetradecanoyl), β-Ala<sup>35</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8</sup>, Lys<sup>26</sup>(N<sup>ε</sup>-hexadecanoyl), β-Ala<sup>35</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Lys<sup>26</sup>(N<sup>ε</sup>-octanoyl), Arg<sup>34</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 10 (Aib<sup>8,35</sup>, Lys<sup>26</sup>(N<sup>ε</sup>-tetradecanoyl), Arg<sup>34</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Lys<sup>26</sup>(N<sup>ε</sup>-hexadecanoyl), Arg<sup>34</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Lys<sup>26</sup>(N<sup>ε</sup>-decanoyl), Arg<sup>34</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Lys<sup>25</sup>, Lys<sup>26</sup>(N<sup>ε</sup>-octanoyl), Arg<sup>34</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Lys<sup>25</sup>, Lys<sup>26</sup>(N<sup>ε</sup>-tetradecanoyl), Arg<sup>34</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 15 (Aib<sup>8,35</sup>, Lys<sup>25</sup>, Lys<sup>26</sup>(N<sup>ε</sup>-hexadecanoyl), Arg<sup>34</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Arg<sup>25,34</sup>, Lys<sup>26</sup>(N<sup>ε</sup>-octanoyl))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Arg<sup>25,34</sup>, Lys<sup>26</sup>(N<sup>ε</sup>-tetradecanoyl))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Arg<sup>25,34</sup>, Lys<sup>26</sup>(N<sup>ε</sup>-hexadecanoyl))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Arg<sup>25,34</sup>, Lys<sup>26</sup>(N<sup>ε</sup>-decanoyl))hGLP-1(7-36)NH<sub>2</sub>;  
 20 (Aib<sup>8</sup>, Lys<sup>26</sup>(N<sup>ε</sup>-octanoyl), Arg<sup>34</sup>, β-Ala<sup>35</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8</sup>, Lys<sup>26</sup>(N<sup>ε</sup>-tetradecanoyl), Arg<sup>34</sup>, β-Ala<sup>35</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8</sup>, Lys<sup>26</sup>(N<sup>ε</sup>-hexadecanoyl), Arg<sup>34</sup>, β-Ala<sup>35</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8</sup>, Lys<sup>26</sup>(N<sup>ε</sup>-decanoyl), Arg<sup>34</sup>, β-Ala<sup>35</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Lys<sup>34</sup>(N<sup>ε</sup>-octanoyl))hGLP-1(7-36)NH<sub>2</sub>;  
 25 (Aib<sup>8,35</sup>, Lys<sup>34</sup>(N<sup>ε</sup>-tetradecanoyl))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Lys<sup>34</sup>(N<sup>ε</sup>-hexadecanoyl))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Arg<sup>26</sup>, Lys<sup>34</sup>(N<sup>ε</sup>-octanoyl))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Arg<sup>26</sup>, Lys<sup>34</sup>(N<sup>ε</sup>-hexadecanoyl))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Arg<sup>26</sup>, Lys<sup>34</sup>(N<sup>ε</sup>-decanoyl))hGLP-1(7-36)NH<sub>2</sub>;  
 30 (Aib<sup>8,35</sup>, Arg<sup>25,26</sup>, Lys<sup>34</sup>(N<sup>ε</sup>-octanoyl))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Arg<sup>25,26</sup>, Lys<sup>34</sup>(N<sup>ε</sup>-tetradecanoyl))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Arg<sup>25,26</sup>, Lys<sup>34</sup>(N<sup>ε</sup>-hexadecanoyl))hGLP-1(7-36)NH<sub>2</sub>;

- (Aib<sup>8,35</sup>, Arg<sup>25,26</sup>, Lys<sup>34</sup>(N<sup>ε</sup>-decanoyl))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Lys<sup>25</sup>, Arg<sup>26</sup>, Lys<sup>34</sup>(N<sup>ε</sup>-octanoyl))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Lys<sup>25</sup>, Arg<sup>26</sup>, Lys<sup>34</sup>(N<sup>ε</sup>-tetradecanoyl))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Lys<sup>25</sup>, Arg<sup>26</sup>, Lys<sup>34</sup>(N<sup>ε</sup>-hexadecanoyl))hGLP-1(7-36)NH<sub>2</sub>;  
 5 (Aib<sup>8,35</sup>, Lys<sup>36</sup>(N<sup>ε</sup>-octanoyl))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Lys<sup>36</sup>(N<sup>ε</sup>-tetradecanoyl))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Lys<sup>36</sup>(N<sup>ε</sup>-hexadecanoyl))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Arg<sup>26</sup>, Lys<sup>36</sup>(N<sup>ε</sup>-octanoyl))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Arg<sup>26</sup>, Lys<sup>36</sup>(N<sup>ε</sup>-tetradecanoyl))hGLP-1(7-36)NH<sub>2</sub>;  
 10 (Aib<sup>8,35</sup>, Arg<sup>26</sup>, Lys<sup>36</sup>(N<sup>ε</sup>-hexadecanoyl))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Arg<sup>26,34</sup>, Lys<sup>36</sup>(N<sup>ε</sup>-octanoyl))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Arg<sup>26,34</sup>, Lys<sup>36</sup>(N<sup>ε</sup>-hexadecanoyl))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Arg<sup>26,34</sup>, Lys<sup>38</sup>(N<sup>ε</sup>-octanoyl))hGLP-1(7-38)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Arg<sup>26,34</sup>, Lys<sup>38</sup>(N<sup>ε</sup>-decanoyl))hGLP-1(7-38)NH<sub>2</sub>;  
 15 (Aib<sup>8,35</sup>, Arg<sup>26,34</sup>, Lys<sup>38</sup>(N<sup>ε</sup>-tetradecanoyl))hGLP-1(7-38)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Arg<sup>26,34</sup>, Lys<sup>38</sup>(N<sup>ε</sup>-hexadecanoyl))hGLP-1(7-38)NH<sub>2</sub>;  
 (Aib<sup>8,35,37</sup>, Arg<sup>25,26,34</sup>, Lys<sup>38</sup>(N<sup>ε</sup>-octanoyl))hGLP-1(7-38)NH<sub>2</sub>;  
 (Aib<sup>8,35,37</sup>, Arg<sup>25,26,34</sup>, Lys<sup>38</sup>(N<sup>ε</sup>-decanoyl))hGLP-1(7-38)NH<sub>2</sub>;  
 (Aib<sup>8,35,37</sup>, Arg<sup>25,26,34</sup>, Lys<sup>38</sup>(N<sup>ε</sup>-tetradecanoyl))hGLP-1(7-38)NH<sub>2</sub>;  
 20 (Aib<sup>8,35,37</sup>, Arg<sup>25,26,34</sup>, Lys<sup>38</sup>(N<sup>ε</sup>-hexadecanoyl))hGLP-1(7-38)NH<sub>2</sub>;  
 (Aib<sup>8,35,37</sup>, Arg<sup>26,34</sup>, Lys<sup>38</sup>(N<sup>ε</sup>-octanoyl))hGLP-1(7-38)NH<sub>2</sub>;  
 (Aib<sup>8,35,37</sup>, Arg<sup>26,34</sup>, Lys<sup>38</sup>(N<sup>ε</sup>-decanoyl))hGLP-1(7-38)NH<sub>2</sub>;  
 (Aib<sup>8,35,37</sup>, Arg<sup>26,34</sup>, Lys<sup>38</sup>(N<sup>ε</sup>-hexadecanoyl))hGLP-1(7-38)NH<sub>2</sub>;  
 (Aib<sup>8,35,37</sup>, Arg<sup>25,26,34</sup>, Lys<sup>38</sup>(N<sup>ε</sup>-octanoyl))hGLP-1(7-38)NH<sub>2</sub>;  
 25 (Aib<sup>8,35,37</sup>, Arg<sup>25,26,34</sup>, Lys<sup>38</sup>(N<sup>ε</sup>-decanoyl))hGLP-1(7-38)NH<sub>2</sub>;  
 (Aib<sup>8,35,37</sup>, Arg<sup>25,26,34</sup>, Lys<sup>38</sup>(N<sup>ε</sup>-tetradecanoyl))hGLP-1(7-38)NH<sub>2</sub>;  
 (Aib<sup>8,35,37</sup>, Arg<sup>25,26,34</sup>, Lys<sup>38</sup>(N<sup>ε</sup>-hexadecanoyl))hGLP-1(7-38)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Lys<sup>25</sup>, Arg<sup>26,34</sup>, Lys<sup>36</sup>(N<sup>ε</sup>-octanoyl))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Lys<sup>25</sup>, Arg<sup>26,34</sup>, Lys<sup>36</sup>(N<sup>ε</sup>-tetradecanoyl))hGLP-1(7-36)NH<sub>2</sub>;  
 30 (Aib<sup>8,35</sup>, Lys<sup>25</sup>, Arg<sup>26,34</sup>, Lys<sup>36</sup>(N<sup>ε</sup>-hexadecanoyl))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Arg<sup>25,26,34</sup>, Lys<sup>36</sup>(N<sup>ε</sup>-octanoyl))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Arg<sup>25,26,34</sup>, Lys<sup>36</sup>(N<sup>ε</sup>-tetradecanoyl))hGLP-1(7-36)NH<sub>2</sub>;

- (Aib<sup>8,35</sup>, Arg<sup>25,26,34</sup>, Lys<sup>36</sup>(N<sup>ε</sup>-hexadecanoyl))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Arg<sup>25,26,34</sup>, Lys<sup>36</sup>(N<sup>ε</sup>-decanoyl))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8</sup>, Lys<sup>34</sup>(N<sup>ε</sup>-octanoyl), β-Ala<sup>35</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8</sup>, Lys<sup>34</sup>(N<sup>ε</sup>-tetradecanoyl), β-Ala<sup>35</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 5 (Aib<sup>8</sup>, Lys<sup>34</sup>(N<sup>ε</sup>-hexadecanoyl), β-Ala<sup>35</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8</sup>, A6c<sup>32</sup>, Lys<sup>34</sup>(N<sup>ε</sup>-octanoyl), β-Ala<sup>35</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8</sup>, Glu<sup>23</sup>, Lys<sup>34</sup>(N<sup>ε</sup>-octanoyl), β-Ala<sup>35</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8</sup>, Glu<sup>23</sup>, A6c<sup>32</sup>, Lys<sup>34</sup>(N<sup>ε</sup>-octanoyl), β-Ala<sup>35</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8</sup>, Arg<sup>26</sup>, Lys<sup>34</sup>(N<sup>ε</sup>-octanoyl), β-Ala<sup>35</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 10 (Aib<sup>8</sup>, Arg<sup>26</sup>, Lys<sup>34</sup>(N<sup>ε</sup>-tetradecanoyl), β-Ala<sup>35</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8</sup>, Arg<sup>26</sup>, Lys<sup>34</sup>(N<sup>ε</sup>-hexadecanoyl), β-Ala<sup>35</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8</sup>, Arg<sup>26</sup>, Lys<sup>34</sup>(N<sup>ε</sup>-decanoyl), β-Ala<sup>35</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8</sup>, Arg<sup>25,26</sup>, Lys<sup>34</sup>(N<sup>ε</sup>-octanoyl), β-Ala<sup>35</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8</sup>, Arg<sup>25,26</sup>, Lys<sup>34</sup>(N<sup>ε</sup>-tetradecanoyl), β-Ala<sup>35</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 15 (Aib<sup>8</sup>, Arg<sup>25,26</sup>, Lys<sup>34</sup>(N<sup>ε</sup>-hexadecanoyl), β-Ala<sup>35</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8</sup>, Arg<sup>25,26</sup>, Lys<sup>34</sup>(N<sup>ε</sup>-decanoyl), β-Ala<sup>35</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8</sup>, Lys<sup>25</sup>, Arg<sup>26</sup>, Lys<sup>34</sup>(N<sup>ε</sup>-octanoyl), β-Ala<sup>35</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8</sup>, Lys<sup>25</sup>, Arg<sup>26</sup>, Lys<sup>34</sup>(N<sup>ε</sup>-tetradecanoyl), β-Ala<sup>35</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8</sup>, Lys<sup>25</sup>, Arg<sup>26</sup>, Lys<sup>34</sup>(N<sup>ε</sup>-hexadecanoyl), β-Ala<sup>35</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 20 (Aib<sup>8</sup>, β-Ala<sup>35</sup>, Lys<sup>36</sup>(N<sup>ε</sup>-octanoyl))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8</sup>, β-Ala<sup>35</sup>, Lys<sup>36</sup>(N<sup>ε</sup>-tetradecanoyl))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8</sup>, β-Ala<sup>35</sup>, Lys<sup>36</sup>(N<sup>ε</sup>-hexadecanoyl))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8</sup>, Arg<sup>26</sup>, β-Ala<sup>35</sup>, Lys<sup>36</sup>(N<sup>ε</sup>-octanoyl))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8</sup>, Arg<sup>26</sup>, β-Ala<sup>35</sup>, Lys<sup>36</sup>(N<sup>ε</sup>-tetradecanoyl))hGLP-1(7-36)NH<sub>2</sub>;  
 25 (Aib<sup>8</sup>, Arg<sup>26</sup>, β-Ala<sup>35</sup>, Lys<sup>36</sup>(N<sup>ε</sup>-hexadecanoyl))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8</sup>, Arg<sup>26,34</sup>, β-Ala<sup>35</sup>, Lys<sup>36</sup>(N<sup>ε</sup>-octanoyl))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8</sup>, Arg<sup>26,34</sup>, β-Ala<sup>35</sup>, Lys<sup>36</sup>(N<sup>ε</sup>-tetradecanoyl))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8</sup>, Arg<sup>26,34</sup>, β-Ala<sup>35</sup>, Lys<sup>36</sup>(N<sup>ε</sup>-hexadecanoyl))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8</sup>, Arg<sup>26,34</sup>, β-Ala<sup>35</sup>, Lys<sup>36</sup>(N<sup>ε</sup>-decanoyl))hGLP-1(7-36)NH<sub>2</sub>;  
 30 (Aib<sup>8</sup>, Lys<sup>25</sup>, Arg<sup>26,34</sup>, β-Ala<sup>35</sup>, Lys<sup>36</sup>(N<sup>ε</sup>-octanoyl))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8</sup>, Lys<sup>25</sup>, Arg<sup>26,34</sup>, Lys<sup>36</sup>(N<sup>ε</sup>-tetradecanoyl), β-Ala<sup>35</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8</sup>, Lys<sup>25</sup>, Arg<sup>26,34</sup>, β-Ala<sup>35</sup>, Lys<sup>36</sup>(N<sup>ε</sup>-hexadecanoyl))hGLP-1(7-36)NH<sub>2</sub>;

- (Aib<sup>8</sup>, Arg<sup>25,26,34</sup>, β-Ala<sup>35</sup>, Lys<sup>36</sup>(N<sup>ε</sup>-octanoyl))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8</sup>, Arg<sup>25,26,34</sup>, β-Ala<sup>35</sup>, Lys<sup>36</sup>(N<sup>ε</sup>-tetradecanoyl))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8</sup>, Arg<sup>25,26,34</sup>, β-Ala<sup>35</sup>, Lys<sup>36</sup>(N<sup>ε</sup>-hexadecanoyl))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8</sup>, Arg<sup>25,26,34</sup>, β-Ala<sup>35</sup>, Lys<sup>36</sup>(N<sup>ε</sup>-decanoyl))hGLP-1(7-36)NH<sub>2</sub>;  
 5 (Aib<sup>8,35</sup>, Lys<sup>26</sup>(N<sup>ε</sup>-octanoyl), A6c<sup>32</sup>, Arg<sup>34</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Lys<sup>26</sup>(N<sup>ε</sup>-tetradecanoyl), A6c<sup>32</sup>, Arg<sup>34</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Lys<sup>26</sup>(N<sup>ε</sup>-hexadecanoyl), A6c<sup>32</sup>, Arg<sup>34</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, A6c<sup>32</sup>, Lys<sup>34</sup>(N<sup>ε</sup>-octanoyl))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, A6c<sup>32</sup>, Lys<sup>34</sup>(N<sup>ε</sup>-tetradecanoyl))hGLP-1(7-36)NH<sub>2</sub>;  
 10 (Aib<sup>8,35</sup>, A6c<sup>32</sup>, Lys<sup>34</sup>(N<sup>ε</sup>-hexadecanoyl))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Arg<sup>26</sup>, A6c<sup>32</sup>, Lys<sup>34</sup>(N<sup>ε</sup>-octanoyl))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Arg<sup>26</sup>, A6c<sup>32</sup>, Lys<sup>34</sup>(N<sup>ε</sup>-tetradecanoyl))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, A6c<sup>32</sup>, Lys<sup>36</sup>(N<sup>ε</sup>-octanoyl))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, A6c<sup>32</sup>, Lys<sup>36</sup>(N<sup>ε</sup>-tetradecanoyl))hGLP-1(7-36)NH<sub>2</sub>;  
 15 (Aib<sup>8,35</sup>, A6c<sup>32</sup>, Lys<sup>36</sup>(N<sup>ε</sup>-hexadecanoyl))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Arg<sup>26</sup>, A6c<sup>32</sup>, Lys<sup>36</sup>(N<sup>ε</sup>-octanoyl))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Arg<sup>26</sup>, A6c<sup>32</sup>, Lys<sup>36</sup>(N<sup>ε</sup>-tetradecanoyl))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Arg<sup>26</sup>, A6c<sup>32</sup>, Lys<sup>36</sup>(N<sup>ε</sup>-hexadecanoyl))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Arg<sup>26,34</sup>, A6c<sup>32</sup>, Lys<sup>36</sup>(N<sup>ε</sup>-octanoyl))hGLP-1(7-36)NH<sub>2</sub>;  
 20 (Aib<sup>8,35</sup>, Arg<sup>26,34</sup>, A6c<sup>32</sup>, Lys<sup>36</sup>(N<sup>ε</sup>-decanoyl))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Arg<sup>26,34</sup>, A6c<sup>32</sup>, Lys<sup>36</sup>(N<sup>ε</sup>-tetradecanoyl))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Arg<sup>26,34</sup>, A6c<sup>32</sup>, Lys<sup>36</sup>(N<sup>ε</sup>-hexadecanoyl))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,24,35</sup>, Lys<sup>26</sup>(N<sup>ε</sup>-octanoyl), Arg<sup>34</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,24,35</sup>, Lys<sup>26</sup>(N<sup>ε</sup>-tetradecanoyl), Arg<sup>34</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 25 (Aib<sup>8,24,35</sup>, Lys<sup>26</sup>(N<sup>ε</sup>-hexadecanoyl), Arg<sup>34</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,24,35</sup>, Arg<sup>26</sup>, Lys<sup>34</sup>(N<sup>ε</sup>-octanoyl))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,24,35</sup>, Arg<sup>26</sup>, Lys<sup>34</sup>(N<sup>ε</sup>-tetradecanoyl))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,24,35</sup>, Arg<sup>26</sup>, Lys<sup>34</sup>(N<sup>ε</sup>-hexadecanoyl))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,24,35</sup>, Arg<sup>26,34</sup>, Lys<sup>36</sup>(N<sup>ε</sup>-octanoyl))hGLP-1(7-36)NH<sub>2</sub>;  
 30 (Aib<sup>8,24,35</sup>, Arg<sup>26,34</sup>, Lys<sup>36</sup>(N<sup>ε</sup>-tetradecanoyl))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,24,35</sup>, Arg<sup>26,34</sup>, Lys<sup>36</sup>(N<sup>ε</sup>-hexadecanoyl))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,24,35</sup>, Glu<sup>23</sup>, A6c<sup>32</sup>, Lys<sup>34</sup>(N<sup>ε</sup>-octanoyl))hGLP-1(7-36)NH<sub>2</sub>;

- (Aib<sup>8,35</sup>, Glu<sup>23</sup>, Lys<sup>26</sup>(N<sup>ε</sup>-octanoyl), Arg<sup>34</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Glu<sup>23</sup>, Lys<sup>26</sup>(N<sup>ε</sup>-tetradecanoyl), Arg<sup>34</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Glu<sup>23</sup>, Lys<sup>26</sup>(N<sup>ε</sup>-hexadecanoyl), Arg<sup>34</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Glu<sup>23</sup>, Lys<sup>34</sup>(N<sup>ε</sup>-octanoyl))hGLP-1(7-36)NH<sub>2</sub>;  
 5 (Aib<sup>8,35</sup>, Glu<sup>23</sup>, A6c<sup>32</sup>, Lys<sup>34</sup>(N<sup>ε</sup>-octanoyl))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Glu<sup>23</sup>, Arg<sup>26</sup>, Lys<sup>34</sup>(N<sup>ε</sup>-octanoyl))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Glu<sup>23</sup>, Arg<sup>26</sup>, Lys<sup>34</sup>(N<sup>ε</sup>-tetradecanoyl))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Glu<sup>23</sup>, Arg<sup>26</sup>, Lys<sup>34</sup>(N<sup>ε</sup>-hexadecanoyl))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Glu<sup>23</sup>, Lys<sup>36</sup>(N<sup>ε</sup>-octanoyl))hGLP-1(7-36)NH<sub>2</sub>;  
 10 (Aib<sup>8,35</sup>, Glu<sup>23</sup>, Lys<sup>36</sup>(N<sup>ε</sup>-tetradecanoyl))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Glu<sup>23</sup>, Lys<sup>36</sup>(N<sup>ε</sup>-hexadecanoyl))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Glu<sup>23</sup>, Arg<sup>26,34</sup>, Lys<sup>36</sup>(N<sup>ε</sup>-octanoyl))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Glu<sup>23</sup>, Arg<sup>26,34</sup>, Lys<sup>36</sup>(N<sup>ε</sup>-tetradecanoyl))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Glu<sup>23</sup>, Arg<sup>26,34</sup>, Lys<sup>36</sup>(N<sup>ε</sup>-hexadecanoyl))hGLP-1(7-36)NH<sub>2</sub>;  
 15 (Aib<sup>8,30,35</sup>, Lys<sup>26</sup>(N<sup>ε</sup>-octanoyl), Arg<sup>34</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,30,35</sup>, Lys<sup>26</sup>(N<sup>ε</sup>-tetradecanoyl), Arg<sup>34</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,30,35</sup>, Lys<sup>26</sup>(N<sup>ε</sup>-hexadecanoyl), Arg<sup>34</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,30,35</sup>, Arg<sup>26</sup>, Lys<sup>34</sup>(N<sup>ε</sup>-octanoyl))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,30,35</sup>, Arg<sup>26</sup>, Lys<sup>34</sup>(N<sup>ε</sup>-tetradecanoyl))hGLP-1(7-36)NH<sub>2</sub>;  
 20 (Aib<sup>8,30,35</sup>, Arg<sup>26</sup>, Lys<sup>34</sup>(N<sup>ε</sup>-hexadecanoyl))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,30,35</sup>, Arg<sup>26,34</sup>, Lys<sup>36</sup>(N<sup>ε</sup>-octanoyl))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,30,35</sup>, Arg<sup>26,34</sup>, Lys<sup>36</sup>(N<sup>ε</sup>-tetradecanoyl))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,30,35</sup>, Arg<sup>26,34</sup>, Lys<sup>36</sup>(N<sup>ε</sup>-hexadecanoyl))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Glu<sup>23</sup>, A6c<sup>32</sup>, Lys<sup>36</sup>(N<sup>ε</sup>-octanoyl))hGLP-1(7-36)NH<sub>2</sub>;  
 25 (Aib<sup>8,35</sup>, Glu<sup>23</sup>, A6c<sup>32</sup>, Lys<sup>36</sup>(N<sup>ε</sup>-tetradecanoyl))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Glu<sup>23</sup>, A6c<sup>32</sup>, Lys<sup>36</sup>(N<sup>ε</sup>-hexadecanoyl))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Glu<sup>23</sup>, Arg<sup>26,34</sup>, A6c<sup>32</sup>, Lys<sup>36</sup>(N<sup>ε</sup>-octanoyl))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Glu<sup>23</sup>, Arg<sup>26,34</sup>, A6c<sup>32</sup>, Lys<sup>36</sup>(N<sup>ε</sup>-tetradecanoyl))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Glu<sup>23</sup>, Arg<sup>26,34</sup>, A6c<sup>32</sup>, Lys<sup>36</sup>(N<sup>ε</sup>-hexadecanoyl))hGLP-1(7-36)NH<sub>2</sub>;  
 30 (Aib<sup>8,24,35</sup>, Glu<sup>23</sup>, Arg<sup>26,34</sup>, A6c<sup>32</sup>, Lys<sup>36</sup>(N<sup>ε</sup>-octanoyl))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,24,35</sup>, Glu<sup>23</sup>, Arg<sup>26,34</sup>, A6c<sup>32</sup>, Lys<sup>36</sup>(N<sup>ε</sup>-tetradecanoyl))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,24,35</sup>, Glu<sup>23</sup>, Arg<sup>26,34</sup>, A6c<sup>32</sup>, Lys<sup>36</sup>(N<sup>ε</sup>-hexadecanoyl))hGLP-1(7-36)NH<sub>2</sub>;

- (Aib<sup>8,24,30,35</sup>, Glu<sup>23</sup>, Arg<sup>26,34</sup>, A6c<sup>32</sup>, Lys<sup>36</sup>(N<sup>ε</sup>-octanoyl))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,24,30,35</sup>, Glu<sup>23</sup>, Arg<sup>26,34</sup>, A6c<sup>32</sup>, Lys<sup>36</sup>(N<sup>ε</sup>-tetradecanoyl))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,24,30,35</sup>, Glu<sup>23</sup>, Arg<sup>26,34</sup>, A6c<sup>32</sup>, Lys<sup>36</sup>(N<sup>ε</sup>-hexadecanoyl))hGLP-1(7-36)NH<sub>2</sub>;  
 ((N<sup>α</sup>-HEPES-His)<sup>7</sup>, Aib<sup>35</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 5 ((N<sup>α</sup>-HEPES-His)<sup>7</sup>, β-Ala<sup>35</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 ((N<sup>α</sup>-HEPES-His)<sup>7</sup>, Aib<sup>8</sup>, β-Ala<sup>35</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 ((N<sup>α</sup>-HEPA-His)<sup>7</sup>, Aib<sup>35</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 ((N<sup>α</sup>-HEPA-His)<sup>7</sup>, β-Ala<sup>35</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 ((N<sup>α</sup>-HEPA-His)<sup>7</sup>, Aib<sup>8</sup>, β-Ala<sup>35</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 10 ((N<sup>α</sup>-tetradecanoyl-His)<sup>7</sup>, Aib<sup>35</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 ((N<sup>α</sup>-tetradecanoyl-His)<sup>7</sup>, β-Ala<sup>35</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 ((N<sup>α</sup>-tetradecanoyl-His)<sup>7</sup>, Aib<sup>8,35</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 ((N<sup>α</sup>-tetradecanoyl-His)<sup>7</sup>, Aib<sup>8</sup>, β-Ala<sup>35</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 ((N<sup>α</sup>-tetradecanoyl-His)<sup>7</sup>, Arg<sup>26,34</sup>, Aib<sup>35</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 15 ((N<sup>α</sup>-tetradecanoyl-His)<sup>7</sup>, Arg<sup>26,34</sup>, β-Ala<sup>35</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 ((N<sup>α</sup>-tetradecanoyl-His)<sup>7</sup>, Aib<sup>8,35</sup>, Arg<sup>26,34</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 ((N<sup>α</sup>-tetradecanoyl-His)<sup>7</sup>, Aib<sup>8</sup>, Arg<sup>26,34</sup>, β-Ala<sup>35</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 ((N<sup>α</sup>-tetradecanoyl-His)<sup>7</sup>, Arg<sup>25,26,34</sup>, β-Ala<sup>35</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 ((N<sup>α</sup>-tetradecanoyl-His)<sup>7</sup>, Aib<sup>8,35</sup>, Arg<sup>25,26,34</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 20 ((N<sup>α</sup>-tetradecanoyl-His)<sup>7</sup>, Aib<sup>8</sup>, Arg<sup>25,26,34</sup>, β-Ala<sup>35</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Lys<sup>26</sup>(N<sup>ε</sup>-octanesulfonyl), Arg<sup>34</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Lys<sup>26</sup>(N<sup>ε</sup>-dodecanesulfonyl), Arg<sup>34</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Lys<sup>26</sup>(N<sup>ε</sup>-hexadecanesulfonyl), Arg<sup>34</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Arg<sup>26</sup>, Lys<sup>34</sup>(N<sup>ε</sup>-octanesulfonyl))hGLP-1(7-36)NH<sub>2</sub>;  
 25 (Aib<sup>8,35</sup>, Arg<sup>26</sup>, Lys<sup>34</sup>(N<sup>ε</sup>-dodecanesulfonyl))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Arg<sup>26</sup>, Lys<sup>34</sup>(N<sup>ε</sup>-hexadecanesulfonyl))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Arg<sup>26,34</sup>, Lys<sup>36</sup>(N<sup>ε</sup>-octanesulfonyl))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Arg<sup>26,34</sup>, Lys<sup>36</sup>(N<sup>ε</sup>-hexadecanesulfonyl))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Asp<sup>26</sup>(1-(4-decylpiperazine)), Arg<sup>34</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 30 (Aib<sup>8,35</sup>, Asp<sup>26</sup>(1-(4-dodecylpiperazine)), Arg<sup>34</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Asp<sup>26</sup>(1-(4-tetradecylpiperazine)), Arg<sup>34</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Asp<sup>26</sup>(1-(4-hexadecylpiperazine)), Arg<sup>34</sup>)hGLP-1(7-36)NH<sub>2</sub>;

- (Aib<sup>8,35</sup>, Arg<sup>26</sup>, Asp<sup>34</sup>(1-(4-decylpiperazine)))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Arg<sup>26</sup>, Asp<sup>34</sup>(1-(4-dodecylpiperazine)))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Arg<sup>26</sup>, Asp<sup>34</sup>(1-(4-tetradecylpiperazine)))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Arg<sup>26</sup>, Asp<sup>34</sup>(1-(4-hexadecylpiperazine)))hGLP-1(7-36)NH<sub>2</sub>;  
 5 (Aib<sup>8,35</sup>, Arg<sup>26,34</sup>, Asp<sup>36</sup>(1-(4-decylpiperazine)))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Arg<sup>26,34</sup>, Asp<sup>36</sup>(1-(4-dodecylpiperazine)))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Arg<sup>26,34</sup>, Asp<sup>36</sup>(1-(4-hexadecylpiperazine)))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Arg<sup>26,34</sup>, Asp<sup>38</sup>(1-(4-decylpiperazine)))hGLP-1(7-38)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Arg<sup>26,34</sup>, Asp<sup>38</sup>(1-(4-dodecylpiperazine)))hGLP-1(7-38)NH<sub>2</sub>;  
 10 (Aib<sup>8,35</sup>, Arg<sup>26,34</sup>, Asp<sup>38</sup>(1-(4-tetradecylpiperazine)))hGLP-1(7-38)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Arg<sup>26,34</sup>, Asp<sup>38</sup>(1-(4-hexadecylpiperazine)))hGLP-1(7-38)NH<sub>2</sub>;  
 (Aib<sup>8,35,37</sup>, Arg<sup>26,34</sup>, Asp<sup>38</sup>(1-(4-decylpiperazine)))hGLP-1(7-38)NH<sub>2</sub>;  
 (Aib<sup>8,35,37</sup>, Arg<sup>26,34</sup>, Asp<sup>38</sup>(1-(4-dodecylpiperazine)))hGLP-1(7-38)NH<sub>2</sub>;  
 (Aib<sup>8,35,37</sup>, Arg<sup>26,34</sup>, Asp<sup>38</sup>(1-(4-tetradecylpiperazine)))hGLP-1(7-38)NH<sub>2</sub>;  
 15 (Aib<sup>8,35,37</sup>, Arg<sup>26,34</sup>, Asp<sup>38</sup>(1-(4-hexadecylpiperazine)))hGLP-1(7-38)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Arg<sup>25,34</sup>, Asp<sup>26</sup>(1-(4-decylpiperazine)))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Arg<sup>25,34</sup>, Asp<sup>26</sup>(1-(4-dodecylpiperazine)))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Arg<sup>25,34</sup>, Asp<sup>26</sup>(1-(4-tetradecylpiperazine)))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Arg<sup>25,34</sup>, Asp<sup>26</sup>(1-(4-hexadecylpiperazine)))hGLP-1(7-36)NH<sub>2</sub>;  
 20 (Aib<sup>8,35</sup>, Arg<sup>25,26</sup>, Asp<sup>34</sup>(1-(4-decylpiperazine)))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Arg<sup>25,26</sup>, Asp<sup>34</sup>(1-(4-dodecylpiperazine)))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Arg<sup>25,26</sup>, Asp<sup>34</sup>(1-(4-tetradecylpiperazine)))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Arg<sup>25,26</sup>, Asp<sup>34</sup>(1-(4-hexadecylpiperazine)))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Arg<sup>25,26,34</sup>, Asp<sup>36</sup>(1-(4-decylpiperazine)))hGLP-1(7-36)NH<sub>2</sub>;  
 25 (Aib<sup>8,35</sup>, Arg<sup>25,26,34</sup>, Asp<sup>36</sup>(1-(4-dodecylpiperazine)))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Arg<sup>25,26,34</sup>, Asp<sup>36</sup>(1-(4-tetradecylpiperazine)))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Arg<sup>25,26,34</sup>, Asp<sup>36</sup>(1-(4-hexadecylpiperazine)))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Arg<sup>25,26,34</sup>, Asp<sup>38</sup>(1-(4-decylpiperazine)))hGLP-1(7-38)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Arg<sup>25,26,34</sup>, Asp<sup>38</sup>(1-(4-dodecylpiperazine)))hGLP-1(7-38)NH<sub>2</sub>;  
 30 (Aib<sup>8,35</sup>, Arg<sup>25,26,34</sup>, Asp<sup>38</sup>(1-(4-tetradecylpiperazine)))hGLP-1(7-38)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Arg<sup>25,26,34</sup>, Asp<sup>38</sup>(1-(4-hexadecylpiperazine)))hGLP-1(7-38)NH<sub>2</sub>;  
 (Aib<sup>8,35,37</sup>, Arg<sup>25,26,34</sup>, Asp<sup>38</sup>(1-(4-decylpiperazine)))hGLP-1(7-38)NH<sub>2</sub>;  
 (Aib<sup>8,35,37</sup>, Arg<sup>25,26,34</sup>, Asp<sup>38</sup>(1-(4-dodecylpiperazine)))hGLP-1(7-38)NH<sub>2</sub>;  
 (Aib<sup>8,35,37</sup>, Arg<sup>25,26,34</sup>, Asp<sup>38</sup>(1-(4-tetradecylpiperazine)))hGLP-1(7-38)NH<sub>2</sub>;

- (Aib<sup>8,35,37</sup>, Arg<sup>25,26,34</sup>, Asp<sup>38</sup>(1-(4-hexadecylpiperazine)))hGLP-1(7-38)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Arg<sup>26,34</sup>, Glu<sup>36</sup>(1-dodecylamino))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Glu<sup>26</sup>(1-dodecylamino), Arg<sup>34</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Arg<sup>26</sup>, Glu<sup>34</sup>(1-dodecylamino))hGLP-1(7-36)NH<sub>2</sub>;  
 5 (Aib<sup>8,35,37</sup>, Arg<sup>26,34</sup>, Glu<sup>38</sup>(1-dodecylamino))hGLP-1(7-38)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Arg<sup>34</sup>, Lys<sup>26</sup>(N<sup>ε</sup>-(2-(4-decyl-1-piperazine)-acetyl)))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Arg<sup>34</sup>, Lys<sup>26</sup>(N<sup>ε</sup>-(2-(4-dodecyl-1-piperazine)-acetyl)))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Arg<sup>34</sup>, Lys<sup>26</sup>(N<sup>ε</sup>-(2-(4-tetradecyl-1-piperazine)-acetyl)))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Arg<sup>34</sup>, Lys<sup>26</sup>(N<sup>ε</sup>-(2-(4-hexadecyl-1-piperazine)-acetyl)))hGLP-1(7-36)NH<sub>2</sub>;  
 10 (Aib<sup>8,35</sup>, Arg<sup>26</sup>, Lys<sup>34</sup>(N<sup>ε</sup>-(2-(4-decyl-1-piperazine)-acetyl)))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Arg<sup>26</sup>, Lys<sup>34</sup>(N<sup>ε</sup>-(2-(4-dodecyl-1-piperazine)-acetyl)))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Arg<sup>26</sup>, Lys<sup>34</sup>(N<sup>ε</sup>-(2-(4-tetradecyl-1-piperazine)-acetyl)))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Arg<sup>26</sup>, Lys<sup>34</sup>(N<sup>ε</sup>-(2-(4-hexadecyl-1-piperazine)-acetyl)))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Arg<sup>26,34</sup>, Lys<sup>36</sup>(N<sup>ε</sup>-(2-(4-decyl-1-piperazine)-acetyl)))hGLP-1(7-36)NH<sub>2</sub>;  
 15 (Aib<sup>8,35</sup>, Arg<sup>26,34</sup>, Lys<sup>36</sup>(N<sup>ε</sup>-(2-(4-dodecyl-1-piperazine)-acetyl)))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Arg<sup>26,34</sup>, Lys<sup>36</sup>(N<sup>ε</sup>-(2-(4-hexadecyl-1-piperazine)-acetyl)))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Arg<sup>26,34</sup>, Lys<sup>38</sup>(N<sup>ε</sup>-(2-(4-decyl-1-piperazine)-acetyl)))hGLP-1(7-38)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Arg<sup>26,34</sup>, Lys<sup>38</sup>(N<sup>ε</sup>-(2-(4-dodecyl-1-piperazine)-acetyl)))hGLP-1(7-38)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Arg<sup>26,34</sup>, Lys<sup>38</sup>(N<sup>ε</sup>-(2-(4-tetradecyl-1-piperazine)-acetyl)))hGLP-1(7-38)NH<sub>2</sub>;  
 20 (Aib<sup>8,35</sup>, Arg<sup>26,34</sup>, Lys<sup>38</sup>(N<sup>ε</sup>-(2-(4-hexadecyl-1-piperazine)-acetyl)))hGLP-1(7-38)NH<sub>2</sub>;  
 (Aib<sup>8,35,37</sup>, Arg<sup>26,34</sup>, Lys<sup>38</sup>(N<sup>ε</sup>-(2-(4-decyl-1-piperazine)-acetyl)))hGLP-1(7-38)NH<sub>2</sub>;  
 (Aib<sup>8,35,37</sup>, Arg<sup>26,34</sup>, Lys<sup>38</sup>(N<sup>ε</sup>-(2-(4-dodecyl-1-piperazine)-acetyl)))hGLP-1(7-38)NH<sub>2</sub>;  
 (Aib<sup>8,35,37</sup>, Arg<sup>26,34</sup>, Lys<sup>38</sup>(N<sup>ε</sup>-(2-(4-tetradecyl-1-piperazine)-acetyl)))hGLP-1(7-38)NH<sub>2</sub>;  
 (Aib<sup>8,35,37</sup>, Arg<sup>26,34</sup>, Lys<sup>38</sup>(N<sup>ε</sup>-(2-(4-hexadecyl-1-piperazine)-acetyl)))hGLP-1(7-38)NH<sub>2</sub>;  
 25 (Aib<sup>8,35</sup>, Arg<sup>25,34</sup>, Lys<sup>26</sup>(N<sup>ε</sup>-(2-(4-decyl-1-piperazine)-acetyl)))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Arg<sup>25,34</sup>, Lys<sup>26</sup>(N<sup>ε</sup>-(2-(4-dodecyl-1-piperazine)-acetyl)))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Arg<sup>25,34</sup>, Lys<sup>26</sup>(N<sup>ε</sup>-(2-(4-tetradecyl-1-piperazine)-acetyl)))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Arg<sup>25,34</sup>, Lys<sup>26</sup>(N<sup>ε</sup>-(2-(4-hexadecyl-1-piperazine)-acetyl)))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Arg<sup>25,26</sup>, Lys<sup>34</sup>(N<sup>ε</sup>-(2-(4-decyl-1-piperazine)-acetyl)))hGLP-1(7-36)NH<sub>2</sub>;  
 30 (Aib<sup>8,35</sup>, Arg<sup>25,26</sup>, Lys<sup>34</sup>(N<sup>ε</sup>-(2-(4-dodecyl-1-piperazine)-acetyl)))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Arg<sup>25,26</sup>, Lys<sup>34</sup>(N<sup>ε</sup>-(2-(4-tetradecyl-1-piperazine)-acetyl)))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Arg<sup>25,26</sup>, Lys<sup>34</sup>(N<sup>ε</sup>-(2-(4-hexadecyl-1-piperazine)-acetyl)))hGLP-1(7-36)NH<sub>2</sub>;



- (Aib<sup>8,35</sup>, Arg<sup>25,26,34</sup>, Lys<sup>36</sup>(N<sup>ε</sup>-(2-(4-decyl-1-piperazine)-acetyl)))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Arg<sup>25,26,34</sup>, Lys<sup>36</sup>(N<sup>ε</sup>-(2-(4-dodecyl-1-piperazine)-acetyl)))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Arg<sup>25,26,34</sup>, Lys<sup>36</sup>(N<sup>ε</sup>-(2-(4-tetradecyl-1-piperazine)-acetyl)))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Arg<sup>25,26,34</sup>, Lys<sup>36</sup>(N<sup>ε</sup>-(2-(4-hexadecyl-1-piperazine)-acetyl)))hGLP-1(7-36)NH<sub>2</sub>;  
 5 (Aib<sup>8,35</sup>, Arg<sup>25,26,34</sup>, Lys<sup>38</sup>(N<sup>ε</sup>-(2-(4-decyl-1-piperazine)-acetyl)))hGLP-1(7-38)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Arg<sup>25,26,34</sup>, Lys<sup>38</sup>(N<sup>ε</sup>-(2-(4-dodecyl-1-piperazine)-acetyl)))hGLP-1(7-38)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Arg<sup>25,26,34</sup>, Lys<sup>38</sup>(N<sup>ε</sup>-(2-(4-tetradecyl-1-piperazine)-acetyl)))hGLP-1(7-38)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Arg<sup>25,26,34</sup>, Lys<sup>38</sup>(N<sup>ε</sup>-(2-(4-hexadecyl-1-piperazine)-acetyl)))hGLP-1(7-38)NH<sub>2</sub>;  
 (Aib<sup>8,35,37</sup>, Arg<sup>25,26,34</sup>, Lys<sup>38</sup>(N<sup>ε</sup>-(2-(4-decyl-1-piperazine)-acetyl)))hGLP-1(7-38)NH<sub>2</sub>;  
 10 (Aib<sup>8,35,37</sup>, Arg<sup>25,26,34</sup>, Lys<sup>38</sup>(N<sup>ε</sup>-(2-(4-dodecyl-1-piperazine)-acetyl)))hGLP-1(7-38)NH<sub>2</sub>;  
 (Aib<sup>8,35,37</sup>, Arg<sup>25,26,34</sup>, Lys<sup>38</sup>(N<sup>ε</sup>-(2-(4-tetradecyl-1-piperazine)-acetyl)))hGLP-1(7-38)NH<sub>2</sub>;  
 (Aib<sup>8,35,37</sup>, Arg<sup>25,26,34</sup>, Lys<sup>38</sup>(N<sup>ε</sup>-(2-(4-hexadecyl-1-piperazine)-acetyl)))hGLP-1(7-38)NH<sub>2</sub>;  
 15 (Aib<sup>8,35</sup>, Arg<sup>26,34</sup>, Lys<sup>36</sup>(N<sup>ε</sup>-decanoyl))hGLP-1(7-36)OH;  
 (Aib<sup>8,35</sup>, Lys<sup>25</sup>, Arg<sup>26,34</sup>, Lys<sup>36</sup>(N<sup>ε</sup>-decanoyl))hGLP-1(7-36)OH;  
 (Aib<sup>8,35</sup>, Arg<sup>26,34</sup>, Ava<sup>37</sup>, Ado<sup>38</sup>)hGLP-1(7-38)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Arg<sup>26,34</sup>, Asp<sup>37</sup>, Ava<sup>38</sup>, Ado<sup>39</sup>)hGLP-1(7-39)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Arg<sup>26,34</sup>, Aun<sup>37</sup>)hGLP-1(7-37)NH<sub>2</sub>;  
 20 (Aib<sup>8,17,35</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8</sup>, Arg<sup>26,34</sup>, β-Ala<sup>35</sup>, D-Asp<sup>37</sup>, Ava<sup>38</sup>, Aun<sup>39</sup>)hGLP-1(7-39)NH<sub>2</sub>;  
 (Gly<sup>8</sup>, β-Ala<sup>35</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Ser<sup>8</sup>, β-Ala<sup>35</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8</sup>, Glu<sup>22,23</sup>, β-Ala<sup>35</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 25 (Gly<sup>8</sup>, Aib<sup>35</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8</sup>, Lys<sup>18</sup>, β-Ala<sup>35</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8</sup>, Leu<sup>27</sup>, β-Ala<sup>35</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8</sup>, Lys<sup>33</sup>, β-Ala<sup>35</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8</sup>, Lys<sup>18</sup>, Leu<sup>27</sup>, β-Ala<sup>35</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 30 (Aib<sup>8</sup>, D-Arg<sup>36</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8</sup>, β-Ala<sup>35</sup>, D-Arg<sup>37</sup>)hGLP-1(7-37)NH<sub>2</sub>;  
 (Aib<sup>8,27</sup>, β-Ala<sup>35</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,27</sup>, β-Ala<sup>35,37</sup>, Arg<sup>38</sup>)hGLP-1(7-38)NH<sub>2</sub>;

- (Aib<sup>8,27</sup>,  $\beta$ -Ala<sup>35,37</sup>, Arg<sup>38,39</sup>)hGLP-1(7-39)NH<sub>2</sub>;  
 (Aib<sup>8</sup>, Lys<sup>18,27</sup>,  $\beta$ -Ala<sup>35</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8</sup>, Lys<sup>27</sup>,  $\beta$ -Ala<sup>35</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8</sup>,  $\beta$ -Ala<sup>35</sup>, Arg<sup>38</sup>)hGLP-1(7-38)NH<sub>2</sub>;  
 5 (Aib<sup>8</sup>, Arg<sup>26,34</sup>,  $\beta$ -Ala<sup>35</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8</sup>, D-Arg<sup>35</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8</sup>,  $\beta$ -Ala<sup>35</sup>, Arg<sup>37</sup>)hGLP-1(7-37)NH<sub>2</sub>;  
 (Aib<sup>8</sup>, Phe<sup>31</sup>,  $\beta$ -Ala<sup>35</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Phe<sup>31</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 10 (Aib<sup>8,35</sup>, Nal<sup>31</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Nal<sup>28,31</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Arg<sup>26,34</sup>, Nal<sup>31</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Arg<sup>26,34</sup>, Phe<sup>31</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Nal<sup>19,31</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 15 (Aib<sup>8,35</sup>, Nal<sup>12,31</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Lys<sup>36</sup>(N<sup>ε</sup>-decanoyl))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Arg<sup>34</sup>, Lys<sup>26</sup>(N<sup>ε</sup>-decanoyl))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Arg<sup>26,34</sup>, Lys<sup>36</sup>(N<sup>ε</sup>-dodecanoyl))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8</sup>,  $\beta$ -Ala<sup>35</sup>, Ser<sup>37</sup>(O-decanoyl))hGLP-1(7-37)-NH<sub>2</sub>;  
 20 (Aib<sup>8,27</sup>,  $\beta$ -Ala<sup>35,37</sup>, Arg<sup>38</sup>, Lys<sup>39</sup>(N<sup>ε</sup>-octanoyl))hGLP-1(7-39)NH<sub>2</sub>;  
 (Aib<sup>8</sup>, Arg<sup>26,34</sup>,  $\beta$ -Ala<sup>35</sup>, Lys<sup>37</sup>(N<sup>ε</sup>-octanoyl))hGLP-1(7-37)NH<sub>2</sub>;  
 (Aib<sup>8</sup>, Arg<sup>26,34</sup>,  $\beta$ -Ala<sup>35</sup>, Lys<sup>37</sup>(N<sup>ε</sup>-decanoyl))hGLP-1(7-37)NH<sub>2</sub>;  
 (Aib<sup>8</sup>, Arg<sup>26,34</sup>,  $\beta$ -Ala<sup>35</sup>, Lys<sup>37</sup>(N<sup>ε</sup>-tetradecanoyl))hGLP-1(7-37)NH<sub>2</sub>;  
 (Aib<sup>8</sup>, Arg<sup>26,34</sup>,  $\beta$ -Ala<sup>35</sup>, Lys<sup>37</sup>(N<sup>ε</sup>-dodecanoyl))hGLP-1(7-37)NH<sub>2</sub>; or  
 25 (Aib<sup>8</sup>, Arg<sup>26,34</sup>,  $\beta$ -Ala<sup>35</sup>, Lys<sup>37</sup>(N<sup>ε</sup>-dodecanoyl))hGLP-1(8-37)NH<sub>2</sub>;  
 or a pharmaceutically acceptable salt thereof. ✓

16. A compound according to claim 15 wherein said compound is

- (Aib<sup>8,35</sup>, A6c<sup>32</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Glu<sup>23</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 30 (Aib<sup>8,24,35</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Glu<sup>23</sup>, A6c<sup>32</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8</sup>, Glu<sup>23</sup>,  $\beta$ -Ala<sup>35</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Arg<sup>26,34</sup>)hGLP-1(7-36)NH<sub>2</sub>;

- (Aib<sup>8,35</sup>, Arg<sup>26,34</sup>, Lys<sup>36</sup>(N<sup>ε</sup>-octanoyl))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Arg<sup>26,34</sup>, Lys<sup>36</sup>(N<sup>ε</sup>-decanoyl))hGLP-1(7-36)OH;  
 (Aib<sup>8,35</sup>, Lys<sup>25</sup>, Arg<sup>26,34</sup>, Lys<sup>36</sup>(N<sup>ε</sup>-decanoyl))hGLP-1(7-36)OH;  
 (Aib<sup>8</sup>, Arg<sup>26,34</sup>, β-Ala<sup>35</sup>, Lys<sup>36</sup>(N<sup>ε</sup>-Aec-decanoyl))hGLP-1(7-36)NH<sub>2</sub>;  
 5 (Aib<sup>8,35</sup>, Arg<sup>26,34</sup>, Ava<sup>37</sup>, Ado<sup>38</sup>)hGLP-1(7-38)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Arg<sup>26,34</sup>, Asp<sup>37</sup>, Ava<sup>38</sup>, Ado<sup>39</sup>)hGLP-1(7-39)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Arg<sup>26,34</sup>, Aun<sup>37</sup>)hGLP-1(7-37)NH<sub>2</sub>;  
 (Aib<sup>8,17,35</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8</sup>, Arg<sup>26,34</sup>, β-Ala<sup>35</sup>, D-Asp<sup>37</sup>, Ava<sup>38</sup>, Aun<sup>39</sup>)hGLP-1(7-39)NH<sub>2</sub>;  
 10 (Gly<sup>8</sup>, β-Ala<sup>35</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Ser<sup>8</sup>, β-Ala<sup>35</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8</sup>, Glu<sup>22,23</sup>, β-Ala<sup>35</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Gly<sup>8</sup>, Aib<sup>35</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8</sup>, Lys<sup>18</sup>, β-Ala<sup>35</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 15 (Aib<sup>8</sup>, Leu<sup>27</sup>, β-Ala<sup>35</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8</sup>, Lys<sup>33</sup>, β-Ala<sup>35</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8</sup>, Lys<sup>18</sup>, Leu<sup>27</sup>, β-Ala<sup>35</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8</sup>, D-Arg<sup>36</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8</sup>, β-Ala<sup>35</sup>, D-Arg<sup>37</sup>)hGLP-1(7-37)NH<sub>2</sub>;  
 20 (Aib<sup>8,27</sup>, β-Ala<sup>35</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,27</sup>, β-Ala<sup>35,37</sup>, Arg<sup>38</sup>)hGLP-1(7-38)NH<sub>2</sub>;  
 (Aib<sup>8,27</sup>, β-Ala<sup>35,37</sup>, Arg<sup>38,39</sup>)hGLP-1(7-39)NH<sub>2</sub>;  
 (Aib<sup>8</sup>, Lys<sup>18,27</sup>, β-Ala<sup>35</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8</sup>, Lys<sup>27</sup>, β-Ala<sup>35</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 25 (Aib<sup>8</sup>, β-Ala<sup>35</sup>, Arg<sup>38</sup>)hGLP-1(7-38)NH<sub>2</sub>;  
 (Aib<sup>8</sup>, Arg<sup>26,34</sup>, β-Ala<sup>35</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8</sup>, D-Arg<sup>35</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8</sup>, β-Ala<sup>35</sup>, Arg<sup>37</sup>)hGLP-1(7-37)NH<sub>2</sub>;  
 (Aib<sup>8</sup>, Phe<sup>31</sup>, β-Ala<sup>35</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 30 (Aib<sup>8,35</sup>, Phe<sup>31</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Nal<sup>31</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Nal<sup>28,31</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Arg<sup>26,34</sup>, Nal<sup>31</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Arg<sup>26,34</sup>, Phe<sup>31</sup>)hGLP-1(7-36)NH<sub>2</sub>;

- (Aib<sup>8,35</sup>, Nal<sup>19,31</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Nal<sup>12,31</sup>)hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Lys<sup>36</sup>(N<sup>ε</sup>-decanoyl))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8,35</sup>, Arg<sup>34</sup>, Lys<sup>26</sup>(N<sup>ε</sup>-decanoyl))hGLP-1(7-36)NH<sub>2</sub>;  
 5 (Aib<sup>8,35</sup>, Arg<sup>26,34</sup>, Lys<sup>36</sup>(N<sup>ε</sup>-dodecanoyl))hGLP-1(7-36)NH<sub>2</sub>;  
 (Aib<sup>8</sup>, B-Ala<sup>35</sup>, Ser<sup>37</sup>(O-decanoyl))hGLP-1(7-37)-NH<sub>2</sub>;  
 (Aib<sup>8,27</sup>, β-Ala<sup>35,37</sup>, Arg<sup>38</sup>, Lys<sup>39</sup>(N<sup>ε</sup>-octanoyl))hGLP-1(7-39)NH<sub>2</sub>;  
 (Aib<sup>8</sup>, Arg<sup>26,34</sup>, β-Ala<sup>35</sup>, Lys<sup>37</sup>(N<sup>ε</sup>-octanoyl))hGLP-1(7-37)NH<sub>2</sub>;  
 (Aib<sup>8</sup>, Arg<sup>26,34</sup>, β-Ala<sup>35</sup>, Lys<sup>37</sup>(N<sup>ε</sup>-decanoyl))hGLP-1(7-37)NH<sub>2</sub>; or  
 10 (Aib<sup>8</sup>, Arg<sup>26,34</sup>, β-Ala<sup>35</sup>, Lys<sup>37</sup>(N<sup>ε</sup>-tetradecanoyl))hGLP-1(7-37)NH<sub>2</sub>;  
 or a pharmaceutically acceptable salt thereof.

- 15 17. Use of a compound as claimed in any of claims 1 to 10, or 15 or 16, in the preparation of a medicament for the treatment of disease.

18. Use as claimed in claim 17, in which the disease is selected from the group consisting of Type I diabetes, Type II diabetes, obesity, glucagonomas, secretory disorders of the airway, metabolic disorder, arthritis, osteoporosis, central nervous system disease, restenosis and neurodegenerative disease.